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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/727,778 | 12/03/2003 | Shinji Imai | 114214-005 | 7096 |

7590 02/08/2005

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EXAMINER

RODRIGUEZ, RUTH C

| ART UNIT | PAPER NUMBER |
|----------|--------------|
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3677

DATE MAILED: 02/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/727,778

Applicant(s)

IMAI, SHINJI

Examiner

Ruth C Rodriguez

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 December 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 03 December 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 12/3/03 & 3/5/04.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

2. The information disclosure statement filed 03 December 2003 and 05 March 2004 have been considered for this Office Action.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 5-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Okeya et al. (US 5,728,448) in view of Crandall (US 6,066,384).

Okeya discloses a reflective tape manufactured by inweaving, interknitting or incorporating in a tape (1) a thread-like (3) or tape-like (3) reflective material that exhibits

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retroreflection (C. 4, L. 4-5). Okeya fails to disclose that the reflective materials allow the color of the fastener tapes to be seen therethrough. However, Candrall teaches a retroreflective material for use in garments (C. 1, L. 16-17, C. 9, L. 39-48 and Fig. 5). The retroreflective material allows the color of the substrate layer to be seen therethrough (C. 8, L. 57-59). This retroreflective material also provides good abrasion resistance and laundering durability. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have the reflective tape disclosed by Okeya where the reflective material is replaced by the retroreflective material taught by Candrall since this retroreflective material will allow the color of the fastener tape to be seen therethrough and will provide good abrasion resistance and laundering durability.

Candrall also teaches that:

The reflective material is transparent or translucent (C. 8, L. 57-59).

The reflective material is a transparent or translucent retroreflective material containing a reflective layer formed from a metal compound that has permeability to light (C. 8, L. 12-26).

The reflective material is a transparent or translucent retroreflective material containing a reflective layer formed from a metal compound that has permeability to light (C. 8, L. 12-26) and a colored reflective layer containing a reflective pigment and being arranged under the reflective layer (C. 8, L. 57-59 and C. 7, L. 1-7).

5. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki et al. (US 4,922,585) in view of Shusta et al. (US 6,416,188 B1).

Suzuki discloses a reflective slide fastener (10) comprising a pair of fastener tapes (12) and a reflective material (15). Each fastener tape has a row of coupling elements (13a,13b) fixedly secured to and along a longitudinal edge of the fastener tape (Figs. 1-14). The reflective materials exhibit retroreflection and are applied to the surfaces of the fastener tapes (Figs. 1-14). Okeya fails to disclose that the reflective materials allow the color of the fastener tapes to be seen therethrough. However, Candrall teaches a retroreflective material for use in garments (C. 1, L. 16-17, C. 9, L. 39-48 and Fig. 5). The retroreflective material allows the color of the substrate layer to be seen therethrough (C. 8, L. 57-59). This retroreflective material also provides good abrasion resistance and laundering durability. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have the slide fastener disclosed by Suzuki where the reflective material is replaced by the retroreflective material taught by Candrall since this retroreflective material will allow the color of the fastener tape to be seen therethrough and will provide good abrasion resistance and laundering durability.

Candrall also teaches that:

The reflective material is transparent or translucent (C. 8, L. 57-59).

The reflective material is a transparent or translucent retroreflective material containing a reflective layer formed from a metal compound that has permeability to light (C. 8, L. 12-26).

The reflective material is a transparent or translucent retroreflective material containing a reflective layer formed from a metal compound that has permeability to light

(C. 8, L. 12-26) and a colored reflective layer containing a reflective pigment and being arranged under the reflective layer (C. 8, L. 57-59 and C. 7, L. 1-7).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Killmer (US 2,236,033), Frohlich (US 3,768,125), Covi et al. (US 6,092,267), Matsushima et al. (US 6,253,425 B1), Kang (US 6,279,209 B1), Dischler (US 6,681,456 B1) and European Patent Document EP 0 299 500 are cited to show state of the art with respect to reflective slide fasteners.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ruth C Rodriguez whose telephone number is (703) 308-1881. The examiner can normally be reached on M-F 07:15 - 15:45.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, J. J. Swann can be reached on (703) 306-4115.

Submissions of your responses by facsimile transmission are encouraged. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Recognizing the fact that reducing cycle time in the processing and examination of patent applications will effectively increase the patent's term, it is to your benefit to submit responses by facsimile transmission whenever permissible. Such submission will place the response directly in our examining group's hands and will eliminate Post Office processing and delivery time as well as PTO's mailroom

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processing and delivery time. For a complete list of correspondence **not** permitted by facsimile transmission, see MPEP § 502.01. In general, most responses and/or amendments not requiring a fee, as well as those requiring a fee but charging such fee to a deposit account, can be submitted by facsimile transmission. Responses requiring a fee that the applicant is paying by check **should not be** submitted by facsimile transmission separately from the check.

Responses submitted by facsimile transmission should include a Certificate of Transmission (MPEP § 512). The following is an example of the format the certification might take:

I hereby certify that this correspondence is being facsimile transmitted to
the Patent and Trademark Office (Fax No. (703) 872-9306) on (Date) .

(Typed or printed name of person signing this certificate)

(Signature)

If your response is submitted by facsimile transmission, you are hereby reminded that the original should be retained as evidence of authenticity (37 CFR 1.4 and MPEP § 502.02). Please do not separately mail the original or another copy unless required by the Patent and Trademark Office. Submission of the original response or a follow-up copy of the response has been transmitted by facsimile will cause further unnecessary delays in the processing of your application, duplicate responses where fees are charged to a deposit account may result in those fees being charged twice.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.


Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ruth C. Rodriguez
Patent Examiner
Art Unit 3677

RCR

rcr

February 7, 2005


JJ Swann
Supervisory Patent Examiner
Technology Center 3600